

DYNAMIX HP-30 COAX

128 Mbps HPNA 3.0 over Coax Ethernet Bridge



User's Guide

INTRODUCTION

Dynamix HP-30 Coax, HCNA (HomePNA3.0 over Coax) to Ethernet bridge connects any Ethernet device to a high speed access device or to a LAN for Internet access. This bridge brings you the newest Ethernet compatible technology that uses the coaxial cable as the network's physical wiring thereby eliminating the need to install new wiring. It is designed to operate on the coaxial TV cable installed in homes.

Dynamix HP-30 Coax enables You to set-up your Private Network at Home with your Existing Coaxial Cable. No additional Network wiring is necessary. You may just Find a Coax Connector in the wall, put the coaxial plug into the connector, you can then be ready to access the broadband Internet. No extra utility is needed. No setting, just link. Simply Plug & Play.

Via the RJ-45 Ethernet Ports, You can connect **Dynamix HP-30Coax** with the Ethernet -Interfaced Devices such as STB, Camera Server, PC, or Switch/Hub. The High speed of 128Mbps will bring you to enjoy the "video-on-demand" or "multimedia-on-demand" services.

This bridge allows you to connect PCs and Ethernet enabled devices, such as Switch, HUB and printers, to a Home Networking LAN by simply plugging into the existing coaxial F-Type connector.

With **Dynamix HP-30Coax** you can even quickly extend or flexibly change the existing LAN environment. No Re-wiring more.

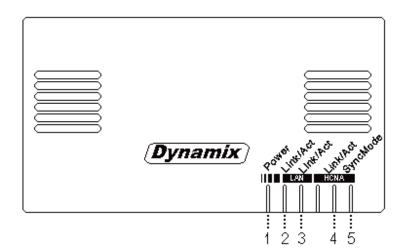
Features

- Plug & Play
- Using existing coaxial TV cable to build a home network
- Shares high speed Internet access and streaming video
- 1 port 128Mbps connection compliant with
- HomePNA 3.0 over Coax (HCNA) standard
- 2 Standard 10/100BaseT Fast Ethernet ports for connecting to Ethernet or cable modem
- 10/100Mbps Auto Negotiation Support
- MDI/MDIX Auto Crossover Support
- QoS Priority Mapping Support

HARDWARE INSTALLATION

Parts Names and Functions

LED Indicators on the Front Panel



	LED	Status			
		Glowing	Dimming	Flashing	
1	Power	Powered by DC5V	Not powered	N/A	
2	LAN	LAN 1	Disconnect or	Receive or	
	Link /Act	Link	Link fail	Transmit	
3	LAN	LAN 2	Disconnect or	Receive or	
	Link /Act	Link	Link fail	Transmit	
4	HCNA	HCNA	Disconnect or	Receive or	
	Link /Act	Link	Link fail	Transmit	
5	HCNA	Sync. Mode	Async. Mode	N/A	
	SyncMode 3 8 1				

Ports on the Rear Panel

HCNA TV LAN2 LAN1 DC5V			
	Port Name	Туре	Functions
Α	DC5V	DC	Connect to the power adapter plug.
В	DIP Switch	DIP	Reserved
с	LAN1/LAN 2 (Ethernet)	RJ-45	Connect to Ethernet port on FTTH or xDSL Modem or Switch for Internet Access.
D	TV	F	Connect to TV
E	HCNA	F	Connect to HCNA devices

Essential Hardwares

Items Included	Description	Purpose
	HCNA to Ethernet Bridge	Main Unit
AT AN	Coaxial Cable (F-Type/ RG-59U)	Connects from HCNA port to coax F-Type connector on the wall outlet.

CAT5 Ethernet cable	Connects from LAN port to Ethernet enabled devices as PC
DC5V Power adapter	Connects from power port of the main unit into a wall outlet

Additional Items (Not included)	Description
	A well-installed WAN environment (FTTH or xDSL Modem)
HUB	A well-installed LAN environment

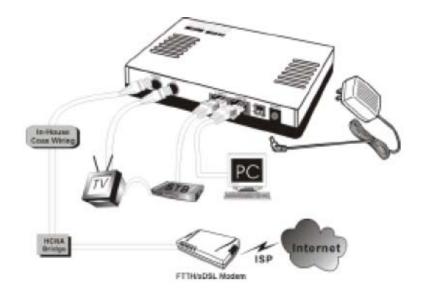
Hardware Connections

1. Select a convenient location for the bridge near the PC or Ethernet device to which it will be connected. The bridge should be kept away from excessive heat.

2. Using one coaxial cable to connect the **HCNA** port to F-Type connector on the wall. Using another coaxial cable to connect the other F-type **TV** port to TV set.

3. Connect the LAN1/LAN2 port to your Ethernet equipped device.

4. Connect the power adapter to the **DC5V** port into a wall outlet.



The figure above shows how to connect an xDSL modem to a home coaxial cable network. Follow the same steps to connect any Ethernet device such as a HUB or printer, to a coaxial cable network. Now you should have connected the LAN port, HCNA port and the DC5V port to the appropriate devices or lines. LED will be as:

POWER ON LAN Link/Act ON HCNA Link/Act ON HCNA SyncMode ON For more information on LEDs, see section

"LED Indicators on the Front Panel"

TROUBLESHOOTING

The bridge has been designed to be a reliable and easy to use connection device. Please refer to the list below to aid in troubleshooting.

The Power (green) LED is off.

• Make sure the power adapter is properly plugged into a live electrical outlet.

The LAN(Ethernet) or HCNA Link/Act LED is off.

- *Make sure the connection to these two ports is secure.*
- The Ethernet or HCNA device to which you are connected should be powered on and properly configured

The HCNA SyncMode LED is off.

• The LED should be always ON after power on.

• The Ethernet or HCNA device to which you are connected should be powered on and properly configured.

SPECIFICATIONS

Standards

- IEEE 802.3 10BaseT Ethernet compliant
- IEEE 802.3u 100BaseT Fast Ethernet compliant
- HomePNA 3.0 over Coax (HCNA) compliant

Data Rates

- HCNA: 128 Mbps
- Ethernet: 10/100 Mbps

Distances

- HCNA: 1200 meter maximum between the two farthest nodes on LAN
- Ethernet: 100 meter maximum

Power Consumption:

• 5V DC IN, Less than 4 watt

Certifications

• CE, FCC Part 15

LEDs

- Power
- Ethernet Link/Activity
- HCNA Link/Activity; SyncMode

Connectors

- Two F-Type connectors, one for connecting with HCNA device, and one for TV
- Two RJ-45 for 10/100M Ethernet

Cables

- HCNA Network: F-Type RG-59U coaxial cable
- Fast Ethernet: CAT5 or better UTP